

CHAPTER 4 LESSON 2 HOMEWORK
Greatest Common Factor

Name: _____
Date: _____

1. Find the greatest common factor of the following sets of numbers.

a. 54 and 144

b. 8, 16, and 20

c. 65 and 42

2. Solve each word problem using any method you like. Explain your reasoning behind your answer.

a. Ariel is making flower arrangements. He has 7 roses and 14 daisies. If Ariel wants to make all the arrangements identical and have no flowers left over, what is the greatest number of flower arrangements that he can make? What would each vase look like?

b. In preparation for a party, Brant is putting desserts onto platters. The chocolate cake is cut into 45 pieces and the cheesecake is cut into 75 pieces. If he wants to prepare identical platters without having any cake left over, what is the greatest number of platters he can prepare? What would each platter look like?

3. The table below shows the number of students in the school choir.

School Choir

Students	Number
Girls	48
Boys	64

The choir teacher plans to arrange the students in equal rows. Only girls or boys will be in each row. What is the greatest number of students that could be in each row?

- A. 16 B. 12 C. 8 D. 4

4. Kiara baked 30 oatmeal cookies and 48 chocolate chip cookies to package in plastic containers for her friends at school. She wants to divide the cookies into identical containers so that each container has the same number of each kind of cookie. If she wants to have the greatest number of containers, how many containers does she need? What would each container look like?
